

WHAT IS CLAIMED IS:

1. A brush structure, comprising:

a rotation bar including a plurality of arc-shaped plates combined with each other, each of the arc-shaped plates of the rotation bar having two sides each formed with a helical rim, so that a plurality of helical grooves are formed between the helical rims of the arc-shaped plates of the rotation bar;

a plurality of brush strips each mounted in a respective one of the helical groove of the rotation bar;

a plurality of fixing blocks each mounted in the rotation bar between the arc-shaped plates; and

a driving block mounted on the rotation bar to rotate the rotation bar.

2. The brush structure in accordance with claim 1, wherein the brush structure includes two brush strips, and the rotation bar includes two opposite arc-shaped plates formed with two helical grooves for mounting the two brush strips.

3. The brush structure in accordance with claim 1, wherein the brush structure includes three brush strips, and the rotation bar includes three arc-shaped plates formed with three helical grooves for mounting the three brush strips.

4. The brush structure in accordance with claim 3, wherein each of the fixing blocks has three lugs for fixing the three arc-shaped plates.

1 5. The brush structure in accordance with claim 1, wherein the
2 rotation bar has a tubular shape.

3 6. The brush structure in accordance with claim 1, wherein each of
4 the helical grooves is extended through a whole length of each of the
5 arc-shaped plates of the rotation bar.

6 7. The brush structure in accordance with claim 1, wherein each of
7 the brush strips has a helical shape.

8 8. The brush structure in accordance with claim 1, wherein each of
9 the brush strips has two sides each formed with an insertion groove for
10 insertion of the respective helical rim of each of the arc-shaped plates of the
11 rotation bar.

12 9. The brush structure in accordance with claim 1, wherein each of
13 the two brush strips has a surface provided with a plurality of bristles.

14 10. The brush structure in accordance with claim 1, wherein each of
15 the brush strips is extended through a whole length of each of the two
16 arc-shaped plates of the rotation bar.

17 11. The brush structure in accordance with claim 1, wherein each of
18 the fixing blocks has two sides each fixed on the respective arc-shaped plate of
19 the rotation bar in a spot soldering manner.

20 12. The brush structure in accordance with claim 1, wherein the
21 driving block has an end formed with a mounting portion mounted in an end of
22 the rotation bar, so that the driving block is secured on the rotation bar.

1 13. The brush structure in accordance with claim 1, wherein the
2 mounting portion of the driving block has a periphery formed with a plurality
3 of recesses, and each of the brush strips has an end inserted into the respective
4 recess of the mounting portion of the driving block.
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